PTO/SB/21 (09-04)
Approved for use through 07/31/2006. OMB 0651-0031
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PTO/SB/21 (09-04) 06. OMB 0651-0031 NT OF COMMERCE

TD A NOMITTAL		Application Numbe	r	10/087,437
Under the Paperwork Reduction A	-	Filing Date		March 2, 2002
FORM	First Named Invent	or	Kimmo Laiho	
9	Art Unit		2684	
(to be used for all correspondence after a	initial filing)	Examiner Name		Alan T. Gantt
al Number of Pages in This Submiss	T -	Attorney Docket Nu	ımber	004770.00033
	ENCLO	SURES (check all tha	t apply)	
Fee Transmittal Form	☐ Drawing(s			After Allowance Communication to TO
Fee Attached	Licensing	related Papers		Appeal Communication to Board of Appeals and Interferences
Amendment / Reply	Petition			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
After Final		Convert to a al Application		Proprietary Information
Affidavits/declaration(s)		Attorney, Revocation f Correspondence Addr	ess	Status Letter
Extension of Time Request		Disclaimer		Other Enclosure(s) (please identify below):
Express Abandonment Request	Request f	or Refund		
] Express Abandonment Request	CD, Numb	CD, Number of CD(s)		
Information Disclosure Statement	☐ Lan	Landscape Table on CD		`
Certified Copy of Priority Document(s)	Remarks			
Reply to Missing Parts/ Incomplete Application				
Reply to Missing Parts under 37 CFR1.52 or 1.53				
SIGI	NATURE OF A	APPLICANT, ATTOR	NEY, OF	RAGENT
Firm	Banner &	Witcoff, LTD.		
Signature				
Printed Name Ross A. Da		nnenberg		
Date	2005	Reg. No.	49,024	
	CERTIFICA	TE OF TRANSMISS	ON/MAIL	LING

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

Signature

Typed or printed name

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Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4810)	8).	Complete if Known			
FEE TRANSMITTAL	Application Number	10/087,437			
for FY 2005	Filing Date	March 2, 2002			
101 F1 2005	First Named Inventor	Kimmo Laiho			
Applicant claims small entity status. See 37 CFR 1	.27 Examiner Name	Alan T. Gantt			
TOTAL AMOUNT OF PAYMENT (\$) 180	Art Unit	2684			
TOTAL AMOUNT OF PAYMENT (\$) 180	Attorney Docket No.	004770.00033			

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METHOD OF PAYMEN	T (check al	ll that apply)					
☐ Check ☐ Credit Car	rd 🗌 Mor	ney Order 🔲 No	ne 🗌 Other				
Deposit Account Dep				Deposit Account			LTD.
For the above-ide	entified depo	osit account, the Di	rector is hereby	authorized to: (che	eck all that ap	ply)	
☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee							
☑ Charge any additional fee(s) or underpayments of fee(s)							
Under 37 WARNING: Information on th information and authorization	CFR 1.16 a is form may n on PTO-203	become public. Cred	lit card informati	on should not be inc	cluded on this	form. Provide cre	dit card
FEE CALCULATION							
1. BASIC FILING, SEA	RCH, ANI	D EXAMINATION	N FEES				
	FILING I	-	SEARCH			ATION FEES	·
Application Type	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fees Paid (\$)
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0 .	0	0	0	· ·
2. EXCESS CLAIM FE	ES						Small Entity
Fee Description						Fee (\$)	Fee (\$)
Each claim over 20 (in						50 200	25 100
Each independent clain Multiple dependent cla		ncluding Reissues)				360	180
Total Claims	Extra C	Claims Fee	(\$) <u>Fe</u>	e Paid (\$)			Dependent Claims
20 or HP	=	x	_ = _			Fee (\$)	Fee Paid (\$)
HP = highest number of	total claims p	aid for, if greater than					
<u>Indep. Claims</u>	Extra C	Claims Fee	(<u>\$)</u> <u>Fe</u>	e Paid (\$)			
3 or HP=		_ x	=				
HP = highest number of		claims paid for, if grea	ater than 3.				'
3. APPLICATION SIZE				a alastusmisaller fi	lad sasuansa	ar commuter	
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50							
sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
<u>Total Sheets</u> <u>Extra Sheets</u> <u>Number of each additional 50 or fraction thereof</u> <u>Fee (\$)</u> <u>Fee Paid (\$)</u>							
100	100 = / 50 = (round up to a whole number) x =						
4. OTHER FEE(S)							Fees Paid (\$)
		\$130 fee (no small					
Other (e.g., late	filing surch	arge): Information	Disclosure Fee u	nder 37 C.F.R. 1.17			<u>180</u>
			•				
CHIDMITTED BY							

SUBMITTED BY			
Signature	Registration No. (Attorney/Agent) 49,024	Telephone	(202) 824-3000
Name (Print/Type)	Ross A. Dannenberg	Date	March 28, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MAR 2 8 2005

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kimmo Laiho et al.

Serial No.:

10/087,437

Filed:

March 2, 2002

For:

System And Method For

Broadband Digital Broadcasting

Group Art Unit:

2684

Examiner:

Alan T. Gantt

Atty. Dkt. No. 004770.00033

INFORMATION DISCLOSURE STATEMENT

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Sir:

In accordance with 37 C.F.R. § 1.56 and 1.97, Applicant(s) provides the following for consideration by the Office during examination of the above-captioned application. This submission is not intended as an admission that any submitted document or reference constitutes prior art against the claims of the present application. Applicant(s) do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Applicant(s) hereby make the following statements, if checked:

Enclosed is a PTO Form PTO/SB/08a listing art for consideration by the Examiner, and a copy of each of the identified documents is included if presently required by Office rules and regulations.

Pursuant to 37 C.F.R. § 1.97 (b) (1), the undersigned states that the present information disclosure statement is being filed within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53 (d).

03/29/2005 JADDO1 00000120 190733 10087437

	Pursuant to 37 C.F.R. § 1.97 (b) (2), the undersigned states that the present
	information disclosure statement is being filed within three months of the date of
	entry of a national stage as set forth in 37 C.F.R. § 1.491 in an international
	application.
	Pursuant to 37 C.F.R. § 1.97 (b) (3), the undersigned states that the present
	information disclosure statement is being filed before the mailing of a first Office
	action.
	Pursuant to 37 C.F.R. § 1.97 (b) (4), the undersigned states that the present
	information disclosure statement is being filed before the mailing of a first Office
	action after the filing of a request for continued examination under 37 C.F.R. § 1.114.
	Pursuant to 37 C.F.R. § 1.97 (e) (1), the undersigned states that each item of
	information contained in the information disclosure statement was first cited in a
	communication from a foreign patent office in a counterpart foreign application not
	more than three months prior to the filing of this information disclosure statement.
	Pursuant to 37 C.F.R. § 1.97 (e) (2), the undersigned states that no item of
	information contained in the information disclosure statement was cited in a
	communication from a foreign patent office in a counterpart foreign application, and
	to the knowledge of the undersigned, upon reasonable inquiry, no item of information
	contained in the information disclosure statement was known to any individual
	designated in §1.56(c) more than three months prior to the filing of the information
	disclosure statement.
	Pursuant to 37 C.F.R. § 1.704 (d), the undersigned states that each item of
	information contained in the information disclosure statement was cited in a
	communication from a foreign patent office in a counterpart foreign application and
	that the communication was not received by any individual designated in § 1.56 (c)
	more than thirty days prior to the filing of this information disclosure statement.
	It is believed no fee is required to make this a complete and timely filing. However,
	if a fee is required, please charge our Deposit Account No. 19-0733.
\boxtimes	The undersigned hereby authorizes the Office to charge the fee pursuant to 37 C.F.R.
	§ 1.17 (p) to our Deposit Account 19-0733.

Consideration of this information is respectfully requested, with citation thereto on the face of the issued patent as applicable.

Respectfully submitted, **BANNER & WITCOFF, LTD.**

Dated: March 28, 2005

By:

Ross A. Dannenberg Registration No. 49,024 1001 G. Street, N.W.

Washington, D.C. 20001-4597

(202) 824-3153

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

Firs Art Exa

 Complete if Known

 Application Number
 10/087,437

 Filing Date
 March 2, 2002

 First Named Inventor
 Kimmo Laiho

 Art Unit
 2684

 Examiner Name
 Alan T. Gantt

 Attorney Docket Number
 004770.00033

U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevant		
Initials *	No.1	Number - Kind Code ² (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear		
		US- 2004/0242163 A1	12-02-2004	Karr et al.			
		US- 2004/0102213 A1	05-27-2004	Karr et al.			
		US- 2004/0102214 A1	05-27-2004	Karr et al.			
		US- 2004/0102215 A1	05-27-2004	Karr et al.			
		US- 2004/0097194 A1	05-20-2004	Karr et al.			

	FOREIGN PATENT DOCUMENTS						
Examiner Cite Foreign Patent Document			Name of Patentee or	Pages, Columns, Lines,			
Examiner Initials*	No. ¹	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶	

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2			
FALK, Aaron David, "A System design For A Hybrid Network Data Communications Terminal Using Asymmetric TCP/IP To Support Internet Applications," Master of Science Thesis, 1994, 78 pages						
FT Interactive Data, printed from http://www.interactivedata.com/images/IDC 3/28/05, 4 pages		FT Interactive Data, printed from http://www.interactivedata.com/images/IDC timeline.swf, on 3/28/05, 4 pages				
ANKENY, Jason, "Safe At Any Speed", printed from http://wirelessreview.com/ar/wireless-safe-speed/ , on 3 pages, Wireless, June 1, 2004						
	"Mobility and the Implications of Wireless Technologies," printed from http://www.wws.princeton.edu/cgi-bin/byteserv.prl/~ota/disk1/1995/9547/954705.PDF , chapter 2, pages 47-64, September, 1995					

Examiner Signature	Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

Complete if Known				
Application Number	10/087,437			
Filing Date	March 2, 2002			
First Named Inventor	Kimmo Laiho			
Art Unit	2684	•		
Examiner Name	Alan T. Gantt			
Attorney Docket Number	004770.00033			

	NON PATENT LITERATURE DOCUMENTS					
Examiner nitials *	Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
		Welcome to eSignal!, printed from http://www.esignal.com/default.asp , on March 22, 2005, 2 pages				
		Welcome to the QuoTrek Product Site!, printed from http://www.quotrek.com/ on March 22,2005, 2 pages				
		VAIDYA, Nitin H., et al., "Scheduling data broadcast in asymmetric communication environments," Wireless Networks, Volume 5, Issue 3, May 1999, pages 171-182				
		"New Flexible Network-based RTK Service in Japan," printed from http://www.geomatics.ucalgary.ca/~lachapel/00GPSIP.pdf , 8 pages, Approximate Publication: after 1999				
		"Semiconductor Delivers Complete Solution for Microsoft's New Smart Personal Objects Technology Initiative," printed from http://www.national.com/news/item/0,1735,829,00.htm on March 28, 2005, 30 pages				
		American Meteorological Society, "Unidata's Internet Data Distribution (IDD) System: Two Years of Data Delivery," printed from http://www.unidata.ucar.edu/projects/idd/iips97.mitch.html , 6 pages, 1997				
		Unidata – IDD Principles, "Principles Underlying Internet Data Distribution," printed from http://www.unidata.ucar.edu/projects/idd/plans/principles.html , 2 pages, June 29, 1994				

Examiner Signature	Date Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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